

Ilyas Ibragimov

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Summary

Financial technology developer with 5+ years building mission-critical data systems for leading hedge funds. Engineered solutions that delivered \$1MM + in cost savings while transforming terabytes of market data into actionable intelligence.

Experience

Two Sigma (Insight Global)

New York, NY (Remote)

Software Developer

November 2022 - Present

- Spearheaded the back-end development of a firm-wide total cost tracking system using dbt and BigQuery, delivering real-time cost visibility that informed executive-level strategic decisions and optimized resource allocation across all departments, tracking over \$80MM in annual spending.
- Designed and deployed automated Python and Bash-based ELT data loader tooling, integrating 8+ critical cost data sources (Jira, Datadog, AWS S3, CMDB, etc) into BigQuery and PostgreSQL, enhancing cost transparency by 40%, and powering any cost analytics systems.
- Strategically transitioned the firm's pipelines from Apptio to dbt and BigQuery, achieving over \$1MM in annual cost savings utilizing Python and SQL while reducing data processing time by 65%.
- Optimized the total-cost tracking system to efficiently process 100+ TB of cloud usage data daily, accelerating cost insights and enabling real-time cloud spend management.
- Championed data engineering excellence by leading interactive dbt workshops, delivering compelling live-demos of cost analytics, and creating comprehensive documentation that accelerated adoption of best practices across multiple departments.
- Partnered with teams across departments to enhance cost data automation, providing hands-on coaching that aligned technical implementations with the firm's cost visibility goals.

Blueshift Asset Management

Red Bank, NJ

Software Developer

January 2020 - November 2022

- Engineered a comprehensive portfolio monitoring ecosystem featuring a real-time terminal-based GUI for intraday analytics, automated daily investor reporting tools, and robust historical performance tracking capabilities that reduced analysis time by 65% and supported \$500M+ in managed assets.
- Overhauled the fund's proprietary C++ trading platform by implementing performance-critical optimizations that reduced storage requirements by hundreds of terabytes, decreased production server load by 40%, and streamlined developer workflows, directly enhancing trading capabilities.
- Built Python/Selenium based web-scrappers delivering market data that directly powered trading algorithms and investment research.
- Engineered direct programmatic connections to multiple equity and crypto exchanges, streamlining order execution and market data acquisition that substantially expanded the fund's trading liquidity.
- Designed a real-time compliance monitoring system that automatically flags trading violations, preventing transactions involving restricted securities and safeguarding the firm against regulatory penalties.

Fidessa

Woking, UK

Platform Development Intern

July 2018 - September 2018

- Engineered a secure file transmission platform using JavaScript, jQuery, HTML, CSS, Java, and TCL that eliminated recurring data breaches, protected confidential client information for 200+ clients, and replaced vulnerable manual processes.

Skills

Languages & Database Technologies: Python, SQL, Bash, C++, JavaScript

Data Engineering & Analytics: dbt, BigQuery, PostgreSQL, Pandas, NumPy, ETL/ELT Pipelines

Cloud & Infrastructure: Google Cloud Platform, AWS

Web Technologies: Flask, Django, Selenium, RESTful APIs, HTML/CSS, Bootstrap

Developer Tools: Git, GitHub, GitLab, CI/CD, Jira, VS Code, Vim

Technical Expertise: Data Warehousing, Data Pipeline Architecture, Web Scraping, Machine Learning Integration

Education

Master of Engineering (MEng Electronic & Electrical)	London, UK
University College London (UCL) • Minor in Intelligent Systems • First Class Honors (4.0 GPA Equivalent)	2019
• Related Courses: <i>Applied Machine Learning Systems, Machine Learning and Neural Computing, Cognitive Systems and Intelligent Technologies, Robotic Systems, Control Systems, Programming, Mathematical Modelling and Analysis, Advanced Digital Design</i>	
High School Diploma, Mathematics Major	Brooklyn, NY
Brooklyn Technical High School • 4.0 GPA	2015
• <i>Math Team</i>	

Certifications

C++ Programming for Financial Engineering Certificate - Distinction
Baruch College MFE Program • 2020
• Advanced program covering C++ implementation for algorithmic trading, risk modeling, and financial derivatives pricing, with hands-on projects using industry-standard quantitative libraries.

Projects

University College London (UCL)	<i>Network Packet Routing with Deep Reinforcement Learning - MEng Final Thesis, First Class Honors</i>	September 2018 - July 2019
• Optimized network packet routing by creating and implementing advanced deep reinforcement learning models, enhancing the networking efficiency and effectiveness of software-defined networks using Python, OpenAI Gym, and TensorFlow.		
University College London (UCL)	<i>Deep Learning Applications in Cryptocurrency Trading - BEng Final Thesis, First Class Honors</i>	September 2017 - May 2018
• Enhanced predictive accuracy for cryptocurrency returns through thorough testing and refinement of LSTM networks with Python/Keras, utilizing extensive data mining processes.		